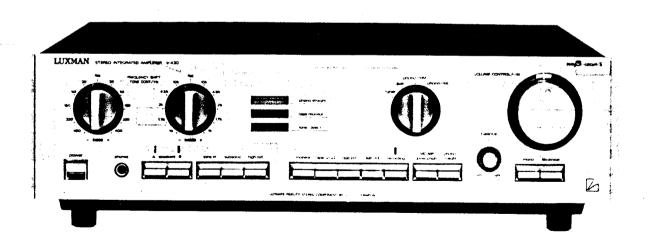
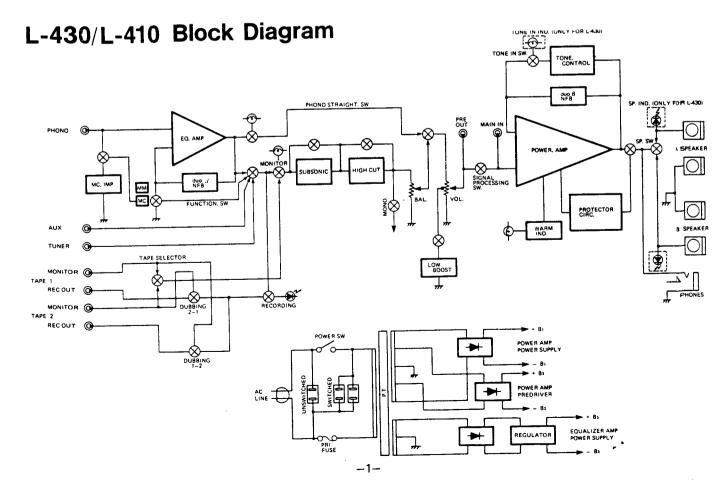
SERVICE MANUAL

DUO-BETA CIRCUIT STEREO L-430/L-410 INTEGRATED AMPLIFIER

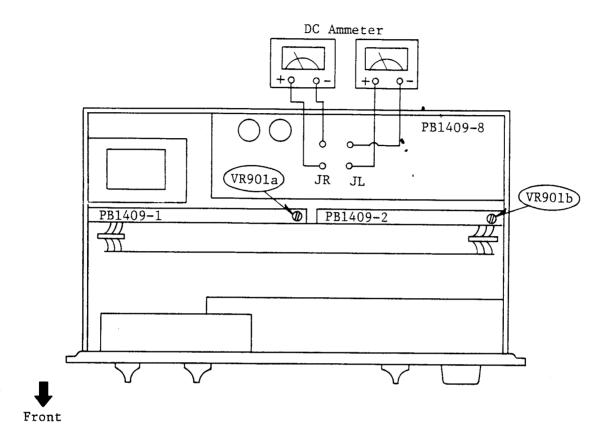


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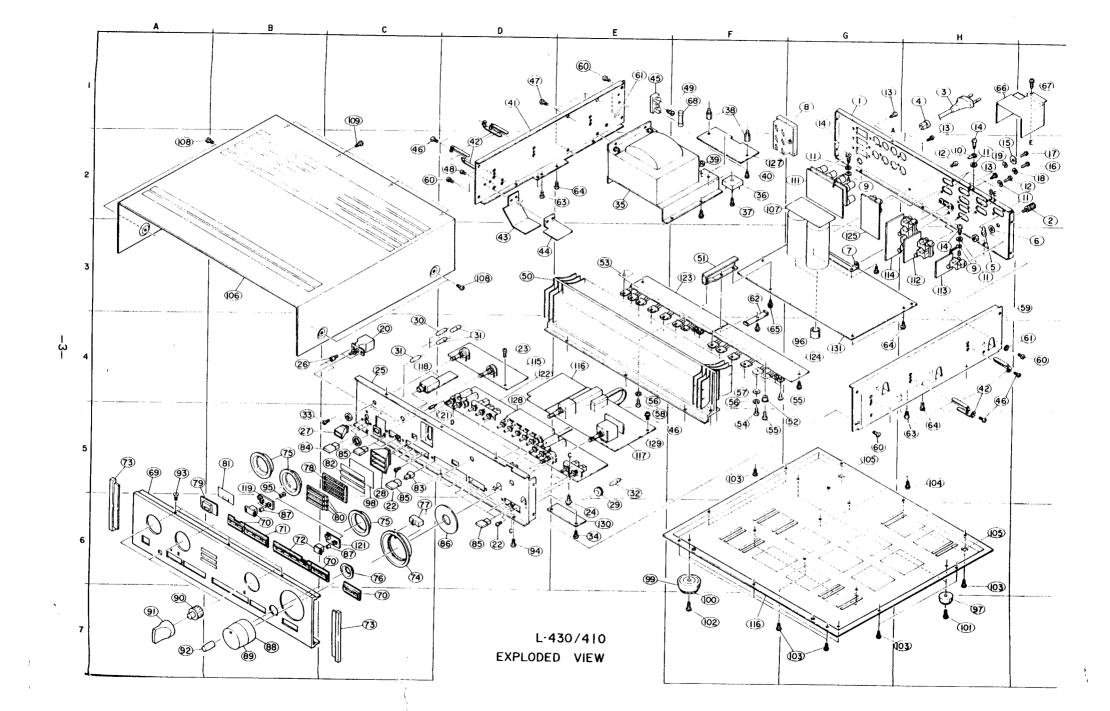


Adjustment Procedures



Bias (Idle) Current Adjustment

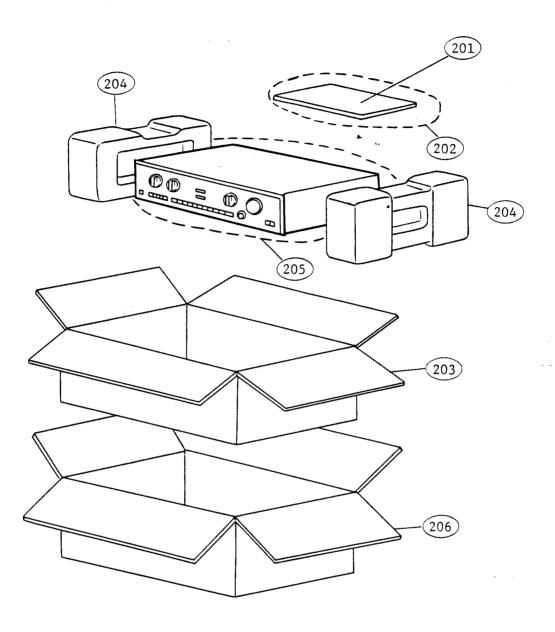
- 1. Disconnect the wires on the PB-1409A-8 from the pins (JL & JR).
- Connect an DC Ampere Meter between the pins and wires as shown in the figure. But in that case, make sure each polarity is correct.
- 3. Make the power switch ON and after 3 minutes. Adjust VR901a (L-ch) on the PB-1409A-1 and VR901b (R-ch) on the PB-1409A-2 to make the idling current 60mA+10mA(L-430), 50mA+10mA(L-410).
- 4. Connect the wires to the pins after adjustment.



Index	Symbol	Stock No.	Stock No.	Description
	No.	L410	L430	
G-1	1	UC1220-4	UC1220-1	Back Panel (J)
		UC1220-5	UC1220-2	Back Panel (E,U)
		UC1220-6	UC1220-3	Back Panel (S)
I-2	2	AG0048	AG0048	GND Terminal
H-1	3	BK0022	BK0022	AC Cord (SD)(SK)
		BK0023	BK0023	AC Cord (SG)
		BK0035	BK0035	AC Cord (J)
		BK0036	BK0036	AC Cord (SB)
		BK0062	BK0062	AC Cord (EK)
		BK0067	BK0067	AC Cord (U,EZ)
H-1	4	BU0033	BU0033	Cord Stopper (EK,EZ,J,SD,U,SK)
	_	BU0039	BU0039	Cord Stopper (SB,SG)
H-3	5	YZB060H	YZB060H	Earth Lug
I-3	6	YWD060A	YWD060A	Toothed Lock Washer 6ϕ
G-3	7	UR1316	UR1316	Bracket
G-1	8	AC0016	AC0016	AC Outlet 3P (E,J)
	_	AC0017	AC0017	AC Outlet 1P (UP)
H-3/G-2	9	YZB030X	YZB030X	Eurth Lug
H-2	10	YZB030H	YZBO30H	Eurth Lug B-5
G-2/I-2	11	YWE030S	YWE030S	Toothed Lock Washer 36
H-2/I-2	12	YAA30C06	YAA30C06	Bind Scr. M3x6 Blk
H-1/G-1	13	YJB30C08	YJB30C08	Tpg. Bind Scr. M3x8 Blk
H-1/G-1	14	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
H-2	15	WZ0070	WZ0070	Changeover Disk
I-2	16	YAA26C04	YAA26C04	Bind Scr. M2.6x4
I-2	17	YAA26C06	YAA26C06	Bind Scr. M2.6x6
I-2	18	YWE026S	YWE026S	Toothed Lock Washer
H-2	19	YWA030U	YWA030U	Nylon Washer
C-4	20	SP0032	SP0032	Power SW (U)
		SP0090	SP0090	Power SW (E,S)
		SP0172	SP0172	Power SW (J)
D-5	21	US0003	บร0003	Stand, PCB
D-6/C-6	22	YAA30A06	YAA30A06	Bind Scr. M3x6
D-4	23	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
E-6	24	YEB30A06	YEB30A06	Sems Bind Scr. M3x6
C-4	25	UB1079	UB1079	Sub Panel
B-4	26	US1068	US1068	Stand 1068
B-5	27	UN1049	UN1049	Lamp Holder
C-5	28	UN1050	UN1050	Lamp Holder
		WU1035	WU1035	Filter
E-6	29	UZ1077	UZ1077	Gum Bush
C-4	30	AL0072	AL0072	Lamp 24V 40mA Phone Straight
D-4/C-4	31	AL0073	AL0073	Lamp 24V 40mA Tone Direct/Tape monitor/Warm UP
E-5	32	AL0074	AL0074	Lamp 24V 40mA Power IND.
B-5	33	YAA30A04	YAA30A04	Bind Scr. M3x4
E-6	34	YEB30A06	YEB30A06	Sems Bind Scr. M3x6
E-2	35	PT2622	PT2619	Power Trans (E,S)
		PT2623	PT2620	Power Trans (J)
-		PT2624	PT2621	Power Trans (U)
F-2	36	TD0110	TD0110	Bridge Diode S5VB40-F
F-2	37	YJB30A14	YJB30A14	Tpg. Bind Scr. M3x14
F-1	38	US1068	US1068	Stand (E,S)
F-2	39	YNK030A	YNK030A	Flange Nut 3¢ (E,S)
F-2	40	YJB40A06	YJB40A06	Tpg. Bind Scr. M4x6
		YAA30A04	YAA30A04	Bind Scr. M3x4
D-1	41	UD1058	UD1058	Side Panel L
H-4/D-2	42	UZ1114	UZ1114	Bracket
D-3	43	UW1191	UW1191	Spacer
D-3	44	UK1134	UK1134	Shield Plate
E-1	45	Non Use	AH0016	Fuse Holder (J)
	46	YJB30A06	YJB30A06	Tpg. Bind Scr. M3x6
			-02204100	
F-5/C-2		1	Y.TB4NANA	The Bind Scr. M4x8
F-5/C-2 D-1	47	YJB40A08	YJB40A08 YAA30A06	Tpg. Bind Scr. M4x8 Rind Scr. M3x6
F-5/C-2		1	YJB40A08 YAA30A06 YJB30A08	Tpg. Bind Scr. M4x8 Bind Scr. M3x6 Tpg. Bind Scr. M3x8 (J)

Index	Symbol	Stock No.	Stock No.	Description	
	No.	L410	L430		
F-3		UR1385	UR1385	Bracket	
G-5	:	BU0065	BU0065	Bushing	
E-3	i	BU0221	BU0221	Mica Sheet	
F-5/E-3	54	YAA30A10	YAA30A10	Bind Scr. M3x10	
G-4/F-5	55	YAA30A08	YAA30A08	Bind Scr. M3x8	
F-4/E-4	5 6	YWC030A	YWC030A	Spring Washer 36	
F-4	57	YWA030A	YWA030A	Flat Washer 36	
E-5	58	YAA30A06	YAA30A06	Bind Scr. M3x6	
I-3	5 9	UD1059	UD1059	Side Panel R	
C-2/I-4	60	YJB40A08	YJB40A08	Tpg. Bind Scr. M4x8	
E-1/I-4	61	YWE040S	UWE040S	Toothed Lock Washer	
F-3	62	UR1384	UR1384	Bracket	
H-5/E-2	63	YJB40A08	YJB40A08	Tpg. Bind Scr. M4x8	
G-4/E-2	64	YEB30A06	YEB30A06	Sems Bind Scr. M3x6	
F-4	65	YEB30A06	YWB30A06	Sems Bind Scr. M3x6	•
H-1	66	UK1133	UK1133	Shield Plate	,
I-1;	67	YEB30A06	YEB30A06	Sems Bind Scr. M3x6	
F-1	68	Non Use	BF0140	Fuse MF60NR-7A	(J)
A-5	69	WA1258-4	WA1258-3	Front Panel	(0)
C-6/B-6	70	WD1153	WD1153	Escutcheon	
B-6	71	WD1154	WD1154	Escutcheon	
B-6	72	WD1155	WD1155	Escutcheon	
C-7/A-5	73	WC1040	WC1040	Ornamental Side Panel	
C-6	74	WD1140-1	WD1140-1	Escutcheon	
C-6/B-5	75	WD1141-1	WD1140-1	Escutcheon	
C-6	76	WD1141-1	WD1141-1	Escutcheon	
C-6	77	WG1020	WG1020	Pilot	
B-5	78		i	l .	
A-5	70 79	UL1010 WE1120	UL1010 WE1120	Masking Gum Protector	
C-6	80	WE1120	WE1120 WE1121	Protector	
B-5	81	WU1031			
C-5	82	1	WU1031	Filter	
C-5	83	WU1033 UZ1378	WU1033 UZ1378	Filter Extension Shaft	
B-5	84	WJ1171-2	WJ1171-2	Mold Knob	
D-6/C-5	85	WJ1189	WJ1189	Mold Knob	
D-6	86	WQ5005		Filter	
C-6/B-6	87	UL1011	WQ5005 UL1011	Masking Gum	
B-7	88	WJ1163	WJ1163	Mold Konb	
B-7	89	WK1135-3	WK1135-3	Metal Knob	
A-7	90	l			
A-7	91	WJ1164 WK1140	WJ1164 WK1140	Mold Knob Metal Knob	
A-7	92	WJ1190	WK1140 WJ1190	Mold Knob	
A-5		1			
D-6	93 94	YJE30A06 YJB30C06	YJE30A06	Flat Tpg. Scr. M3x6	
B-5	94	YRA35C55	YJB30C06 YRA30C55	Tpg. Bind Scr. M3x6 Blk	
G-4	96	UW1192	UW1192	Rivet 3.5x5.5 Blk	
H-7	97	WN1032		Spacer Trannleg	(1)
n-/	71	WN1032 WN0007	WN1032	9	(J)
C-6	98	WU1034	WN0007	Trannleg	(E,S,U)
1			WU1034	Filter	(1)
E-6	99	WN1026	WN1026	Mold Foot	(J)
		WN1024	WN1024	Metal Foot	(J)
F-7	100	WN0007	WN0007	Trannleg	(E,S,U)
r-/	100	WN1025	WN1025	Felt for Foot	(J)
1 ,, ,	101	WN0007	WN0007	Trannleg	(E,S,U)
H-7	101	YJB40C12	YJB40C12	Tpg. Bind Scr. M4x12	(7)
F-7	102	YJB40C14	YJB40C14	Tpg. Bind Scr. M4x14	(J)
0.7/2 5	102	YJB40C12	YJB40C12	Tpg. Bind Scr. M4x12	(E,S,U)
G-7/F-5	103	YJB30C06	YJB30C06	Tpg. Bind Scr. M3x6 Blk	
H-5	104	YJB40C08	YJB40C08	Tpg. Bind Scr. M4x8 Blk	
H-6/G-5	105	YWE030S	YWE030S	Toothed Lock Washer 36	
B-3	106	UG1039	UG1039	Bonnet	İ
F-2	107	UW1193	UW1193	Spacer	
D-3	108	YJB40C08	YJB40C08	Tpg. Bind Scr. M4x8	
C-1	109	YJB30C06	YJB30C06	Tpg. Bind Scr. M3x6	
G-2	111			PB-1408-1 Ass'y	
	112			PB-1408-2 Ass'y	
H-3		İ	j	PB-1408-3 Ass'y	
	114		- 1	PB-1408-4 Ass'y	
D-5				PB-1408-5 Ass'y	
F-7		UE1122	UE1122	Bottom Plate	İ
E-5			ĺ	PB-1408-7 Ass'y	
C-4				PB-1408-8 Ass'y	1
	121	Ì		PB-1408-11 Ass'y	
D-4			-	PB-1408-12 Ass'y	
	123	1		PB-1409A-1 Ass'y	
G-4		j	1	PB-1409A-2 Ass'y	į
G-3			ļ	PB-1409A-3 Ass'y	
F-2	127	i	į	PB1409A-4 Ass'y	(ES)
	100		•	PB1408A-10 Ass'y	(J,U)
D-4	128		1	PB-1409A-5 Ass'y	
G-4	131			PB-1409A-8 Ass'y	

Packing Material Parts List

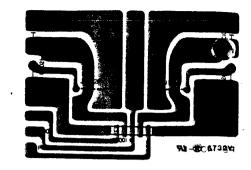


Symbol No.	Stock No. L410	Stock No. L430	Description	
201	MA0161-2	MA0161-2	Owner's Manual	(J)
	ME0248	ME0248	Owner's Manual	
202	XC1031	XC1031	Plastic Bag	
203	XA1329	XA1327	Carton	
204	XB1067	XB1067	Styrol	
205	XC1018A	XC1018A	Plastic Bag	
206	XH1065	XH1065	Outer Carton	(E,S,U)

PB-1408-1 Parts List

Symbol No.	Stock No.	Stock No. L430	Description
(Speaker I	'erminal)		
	AT0153	AT0153	8P YKD31-0134
(Capacitor	•)		
C100la,b	CQ0041	CQ0041	1000pF 50V St (SD)
C1002a,b	CQ0041	CQ0041	1000pF 50V St (SD)

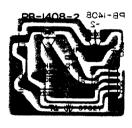
PB-1408-1



PB-1408-2 Parts List

Symbol No.	Stock No. L410	Stock No. L430	Description
(Pin Jack)			
	AT0151	AT0151	4P T5754-AA Aux,Tuner
(Capacitor	.)		
C301a,b	CQ1401	CQ1401	1000pF 50V St (SD)
C302a,b	CQ1401	CQ1401	1000pF 50V St (SD)
(Resistor)		,	
R301a,b	RB0254	RB0254	1M 1/4W Rd
R302a,b	RB0254	RB0254	1M 1/4W Rd

PB-1408-2



PB-1408-3 Parts List

Symbol No.	Stock No.	Stock No.	Description	on				
	L410	L430						
(Pin Jack)	(Pin Jack)							
	AT0152A	AT0152A	2P T5753-1	BA Phono				
(Choke Coi	1)							
L101a,b	LA1065	LA1065	S-471J		(SD)			
L102a,b	LA1065	LA1065	S-471J		(SD)			
(Capacitor))				***************************************			
C101a,b	CQ1407	CQ1407	150pF	50V St	(SD)			
C102a,b	CQ1407	CQ1407	150pF	50V St	(SD)			
C103	Non Use	CQ0009	0.047uF	50V My	(SD)			
(Resistor)								
R101a,b	RB0180	RB0180	820	1/4W Rd	(SD)			

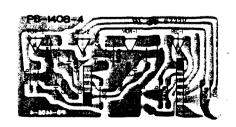
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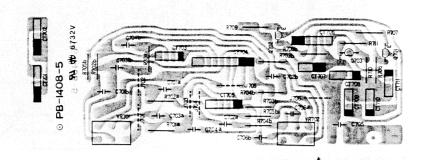


PB-1408-4 Parts List

Symbol No.	Stock No.	Stock No.	Description			
	L410	L430				
(Pin Jack)						
	AT0151	AT0151	4P T5754-AA(Moni-1 Rec-2)			
	AT0151	AT0151	4P T5754-AA(Moni-2 Rec-1)			
(Capacitor)					
C401a,b	CQ1401	CQ1401	1000pF 50V St (SD)			
C402a,b	CQ1401	CQ1401	1000pF 50V St (SD)			
C403	CK0140	CK0140	0.047uF 50V Ce			
C404	CK0140	CK0140	0.047uF 50V Ce			
(Resistor)						
R401a,b	RB0254	RB0254	1M 1/4W Rd			
R402a,b	RB0254	RB0254	1M 1/4W Rd			
R403a,b	RB0254	RB0254	1M 1/4W Rd			
R404a,b	RB0254	RB0254	1M 174W Rd			

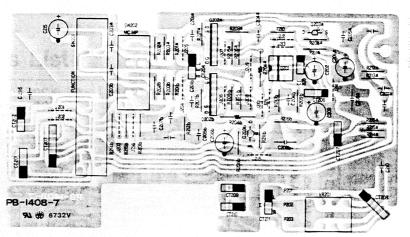
PB-1408-4





PB-1408-5 Parts List

Symbol No.			Description
(TT	L410	L430	발발 (1985년) 1982년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 1985년 - 19 1985년 - 1985년
(Variable			
VR701	RV0295	RV0295	V16 K162A-50KEE Bass
VR702	RV0295	RV0295	V16 K162A-50KEE Treble
(Transisto	r)		
Q701		TR0351	2SC2320
Q702	TR0351	TR0351	2SC2320
Q703	TR0351	TR0351	2SC2320
(Capacitor)		
C701a,b	CQ0010	CQ0010	0.039uF 50V My
C702a,b	CQ0013	CQ0013	0.022uF 50V My
C703a,b	CQ0178	CQ0178	0.12uF 50V My
C704a,b	CQ0007	CQ0007	0.068uF 50V My
C705	CE1753	CE1753	4.7uF 50V E1
C706a,b	CQ5078	CQ5078	470pF 50V St
**	CE1977B	CE1977B	4.7uF (BP) 50V E1
(Resistor)			
R701a,b	RB0190	RB0190	2.2K 1/4W Rd
R702a,b	RB0202	RB0202	6.8K 1/4W Rd
R703a,b	RB0166	RB0166	220 1/4W Rd
R704a,b	RB0178	RB0178	680 1/4W Rd
R705a,b	RB0174	RB0174	470 1/4W Rd
R706		RB0198	4.7K 1/4W Rd
R707		RB0136	12 1/4W Rd
R708	RB0198	RB0198	47K 1/4W Rd
R709	RB0136	RB0136	12 1/4W Rd
R710	RB0198	RB0198	4.7K 1/4W Rd
R711	RB0136	RB0136	12 1/4W Rd



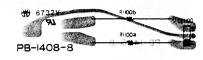
PB-1408-7 Parts List

Symbol No.	Stock No.	Stock No. L430	Descript	ion	
(Variable		L430	<u> </u>		
VR201	RV0296	RV0296	K272A0100	W Wolume	
(Switch)	1200230	100230	RZ / ZAOTOC	ok volume	:
SW201	SR0173	SR0173	Rotary SF	2711_8/C E	unation
SW202	SS0150	SS0150	Slide SUE		unction
(IC & FET)		100100	STIGE 301	NZ433	
0201	TC0187	TC0187	NJM4556D-	п	
Q202a,b	TF0035	TF0035	2SK270 Du		(SD)
, , , , , ,	11 00 33	TF0037	2SK147	laı	(J)
Q203a,b	TF0030	TF0030	25K147 2SK117Y		(3)
(Capacitor		11 00 30	23K11/1		
C201a,b	CM0056	CM0056	33pF	50V Mi	
C202	CE1731	CE1731	47uF	25V E1	
C203a,b	CQ5077	CQ5077	330pF		
C203a,b	CQ1436	CQ3077	and the place of the first of the control of the co	50V St	
C205a,b	CQ1430	CQ1436	4700pF 0.1uF	50V St	
C206a,b	CE1717	CE1717	4 A self-man deposit of the contract of the	50V My	
C200a,b	and the contract of the contra	A Complete C	10uF	16V E1	
C207a,b	CQ0123 CE1977B	CQ0123	0.027uF	50V My	
C200a,b	CE1977B		4.7uF	50V	
	CE19//B	000011	4.7uF BF	50V E1	
C200	GE1 701	CQ2011	3.3uF	250V My	
C209	CE1731	CE1731	47uF	25V E1	
C210	CQ1436	CQ1436	4700pF	50V St	
C216	CQ1436	CQ1436	4700pF	50V E1	
(Resistor)	T				
R201a,b	RB0222	RB0222	47K	1/4W Rd	
R202a,b	RB0158	RB0158	100	1/4W Rd	
R203a,b	RB0166	RB0166	220	1/4W Rd	(E,S,U)
R204a,b	RD2586	RD2586	1.5K	1/2W Rd	
R205a,b	RB0182	RB0182	1K	1/4W Rd	
R206a,b	RB0180	RB0180	820	1/4W Rd	
R207a,b	RB0148	RB0148	39	1/4W Rd	(E,S,U)
R208a,b	RB0168	RB0168	270	1/4W Rd	
R209a,b	RB0154	RB0154	68	1/4W Rd	
R210a,b	RB0260		1.8K	1/4W Rd	
		RB0258	1.5K	1/4W Rd	
R211a,b	RB0254	RB0254	1M	1/4W Rd	
R212a,b	RB0218	RB0218	33K	1/4W Rd	
R213a,b	RB0192	RB0192	2.7K	1/4W Rd	
R214a,b	RB0156	RB0156	82	1/4W Rd	
R215a,b	RB0188	RB0188	1.8K	1/4W Rd	
R216a,b	RB0150	RB0150	47	1/4W Rd	

PB-1408-8

PB-1408-8 Parts List

Symbol No.	Stock No. L410	Stock No. L430	. Description	
(Phone Jack	κ)			
	AJ0022	AJ0022	HLJ0305-01-	020
(Resistor)				Agiteligas
R1100a,b	RS5030	RS5030	470	3W Rf



PB-1408-9 Parts List

Symbol No.	Stock No.	Stock No.	Description
(LED)	12410	<u> </u>	
LED1200	Non Use	TD0237	SLB-15UU5
LED1201	Non Use	TD0237	SLB-15UU5





PB-1408-10

PB-1408-10 Parts List

Symbol No.	Stock No.	Stock No.	Description
	L410	L430	
(Fuse Holde	er)		
F001	AH0029	Non Use	YSH-401T
(Fuse)			
F001	BF0082	Non Use	ULCS-MF61ML-5A (U)
	BF0121	Non Use	MF61ML-6A (J)

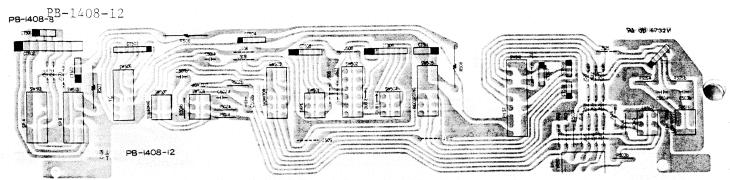


PB-1408-11 Parts List

	The state of the s		
Symbol No.	Stock No. L410	Stock No. L430	Description
(LED)			
LED1 300	TD0237	TD0237	SLB-15UU5

PB-1408-11

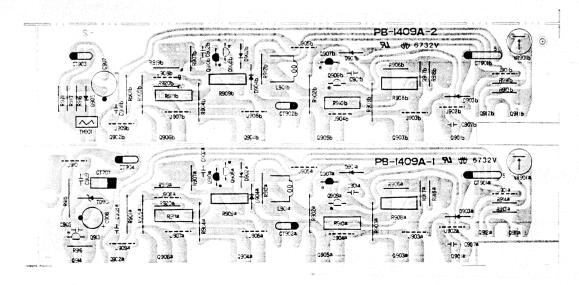




PB-1408-12 Parts List

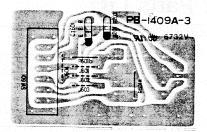
Symbol No.	Stock No. L410	Stock No. L430	Description *
(Switch)			
SW501-505	SP0282	SP0282	Push SUF53
SW506-508	SP0281	SP0281	Push SUN331A
SW509,511	SP0280	SP0280	Push SUN231A
SW510	SP0283	SP0283	Push SUF23
SW512,513	SP0262	SP0262	Push SUF23
(Capacitor))		
C501a,b	CQ0004	CQ0004	0.015uF 50V My
C502a,b	CQ0027	CQ0027	6800pF 50V My
C503a,b	CQ0011	CQ0011	0.33uF 50V My
C504	CK0140	CK0140	0.047uF 50V Ce
C505	CK0140	CK0140	0.047uF 50V Ce
(Variable I	Resistor)		
VR501	RV0294	RV0294	V16 K162A-250KMN Balance
(Resistor)			
R501a,b	RB0192	RB0192	2.7K 1/4W Rd
R502a,b	RB0254	RB0254	1M 1/4W Rd
R503a,b	RB0202	RB0202	6.8K 1/4W Rd
R504a,b	RB0254	RB0254	1M 1/4W Rd
R505a,b	RB0208	RB0208	12K 1/4W Rd
R506		RS2940	2.2K 2W Rf
R507		RS2940	2.2K 2W Rf
R508	RS2940	RS2940	2.2K 2W Rf

PB-1409A-1 PB-1409A-2



PB-1409A-1,2 Parts List

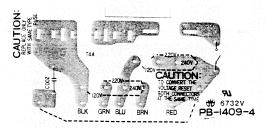
	75A-1,2			
Symbol No.	Stock No.		Descript	ion
(Variable	L410	L430	1	
VR901a,b	RT0006	RT0006	Comi CD10	ND 330D
(Choke Coi		KIUUUU	Semi SR19	7K-33UB
L901a,b	LA1020	LA1020	LUX-1020	
(Thremisto		LATUZU	LUX-1020	
TH901	TV0011	TV0011	TD5-C320	
Transisto		TVUUTT	103-0320	Taran da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Ar Taran da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Araba da Ar
0901a,b	TR0299	TR0299	2SC2238B	
Q902a,b	TR0298	TR0299	2SA968B	
Q903a,b	TR0380	TR0380		
Q903a,b Q904a,b	TR0379	If the first term is a first term in the con-	2SC3182 2SA1265	
Q905a,b		TR0379	1	
Q906a,b	Non Use	TR0380	2SC3182	
Q900a,b Q907a,b	Non Use	TR0379	2SA1265	
	TR0314	TR0314	2SA999	
0908a,b	TR0351	TR0351	2SC2320	
Q909a,b	TR0351	TR0351	2SC2320	
Q910a,b	TR0314	TR0314	2SA999	
Q911a,b	TR0334	TR0334	2SC1903	
Q912a,b	TR0334	TR0334	2SC1903	
Q913	TR0351	TR0351	2SC2320	
Q914	TR0139	TR0139	2SD880	
(Capacitor		000010	10.00/==	
C901a,b	CQ0019	CQ0019	0.0047uF	
C902a,b	CQ0019	CQ0019	0.0047uF	
C905	CK0140		0.047uF	50V Ce
C906	CE1732		100uF	25V E1
C907	CE1722	CE1722	220uF	16V E1
C907a,b	CM0125	CM0125	47pF	500V Mi
C908a,b	CM0125	CM0125	47pF	500V Mi
C909	CK0140		0.047uF	50V Ce
(Zener Dio		<u> </u>		
TD901	TD0085	TD0085	WZ-230	
(Diode)				
D901a,b	TD0227	TD0227	1SS41	
D902a,b	TD0227	TD0227	1SS41	
0903a,b	TD5025	TD5025	1S2462	
D904a,b	TD5025	TD5025	1S2462	
0905a,b	Non Use	TD0227	1SS41	
(Resistor)			and the second s	
R901a,b	RS2513L	The second second second		
	KOZDIDL		120	1/2W Rf
R902a,b	K32JIJL	RS2564	4.7	1/2W Rf 1/2W Rf
	RS2513L RS2564L	RS2564 RS2564L		
R903a,b			4.7	1/2W Rf
R903a,b R904a,b	RS2564L	RS2564L	4.7	1/2W Rf 1/2W Rf
R903a,b R904a,b R905a,b	RS2564L	RS2564L RS2564L	4.7 4.7 4.7	1/2W Rf 1/2W Rf 1/2W Rf
R903a,b R904a,b R905a,b R906a,b	RS2564L RS2564L	RS2564L RS2564L RS2564	4.7 4.7 4.7 4.7	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf
R903a,b R904a,b R905a,b R906a,b R907a,b	RS2564L RS2564L RB0166	RS2564L RS2564L RS2564	4.7 4.7 4.7 4.7 220	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R906a,b R907a,b	RS2564L RS2564L RB0166 RB0160	RS2564L RS2564L RS2564	4.7 4.7 4.7 4.7 220 120	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b	RS2564L RS2564L RB0166 RB0160 RG0075	RS2564L RS2564L RS2564 RB0166	4.7 4.7 4.7 4.7 220 120 0.22 0.22	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b	RS2564L RS2564L RB0166 RB0160	RS2564L RS2564L RS2564 RB0166	4.7 4.7 4.7 4.7 220 120 0.22	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b	RS2564L RS2564L RB0166 RB0160 RG0075	RS2564L RS2564L RS2564 RB0166	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc
R903a,b R904a,b R905a,b R905a,b R907a,b R908a,b	RS2564L RS2564L RB0166 RB0160 RG0075	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc
R903a,b R904a,b R905a,b R905a,b R907a,b R908a,b R909a,b	RS2564L RS2564L RB0166 RB0160 RG0075	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 0	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 3W Rc 3W Rc
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b R909a,b R910a,b R911a,b	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RG0102 RD2526	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 0	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 3W Rc 3W Rc
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b R909a,b R910a,b R911a,b R912a,b	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 0	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b R909a,b R911a,b R911a,b R912a,b R913a,b	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 0	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R905a,b R906a,b R907a,b R908a,b R910a,b R911a,b R912a,b R913a,b R914a,b	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 4.7 2.7K 1.2K 1K	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R905a,b R906a,b R907a,b R908a,b R910a,b R911a,b R911a,b R913a,b R914a,b R915	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 0	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R905a,b R906a,b R907a,b R908a,b R910a,b R911a,b R911a,b R914a,b R915 R916	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 4.7 2.7K 1.2K 1K 4.7M 470	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R905a,b R906a,b R907a,b R908a,b R911a,b R911a,b R912a,b R913a,b R914a,b R915 R916	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 4.7 2.7K 1.2K 1K 4.7M 470 22K	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 5W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R905a,b R905a,b R906a,b R907a,b R908a,b R911a,b R911a,b R912a,b R914a,b R915 R916 R916 R916a,b R917	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214 RB0214 RB0174	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214 RB0214	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 4.7 2.7K 1.2K 1.2K 1.4 4.7M 4.70 2.2K 4.70	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R903a,b R904a,b R904a,b R905a,b R906a,b R907a,b R908a,b R911a,b R911a,b R912a,b R914a,b R915 R916 R916 R916a,b R917	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214 RB0174	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 1.2K 1.2K 1.2K 1.4 4.7M 4.7M 4.7M 4.70 4.70	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd
R902a,b R903a,b R903a,b R904a,b R905a,b R906a,b R907a,b R908a,b R911a,b R911a,b R912a,b R913a,b R915 R916 R917 R917a,b R917a,b R917a,b	RS2564L RS2564L RB0166 RB0160 RG0075 RG0075 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214 RB0214 RB0174	RS2564L RS2564L RS2564 RB0166 RG0102 RG0102 RG0102 RG0102 RD2526 RB0192 RB0184 RS2524L RB0270 RB0174 RB0214 RB0214	4.7 4.7 4.7 220 120 0.22 0.22 0.22 0.22 0.22 0.22 4.7 2.7K 1.2K 1.2K 1.4 4.7M 4.70 2.2K 4.70	1/2W Rf 1/2W Rf 1/2W Rf 1/2W Rf 1/4W Rd 1/4W Rd 5W Rc 3W Rc 3W Rc 3W Rc 3W Rc 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd 1/4W Rd



PB-1409A-3 Parts List

Symbol No.		Stock No.	Description	
	L410	L430		
(Switch)				
SW601	SS0135	SS0135	Slide SSB04202	
(Resistor)				
R601a,b	RB0222	RB0222	47K 1/4W Rd	
(Pin Jack)				
	AT0150	AT0150	4P T5757-AA	

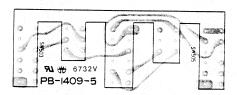
PB-1409-4



PB-1409A-4 Parts List

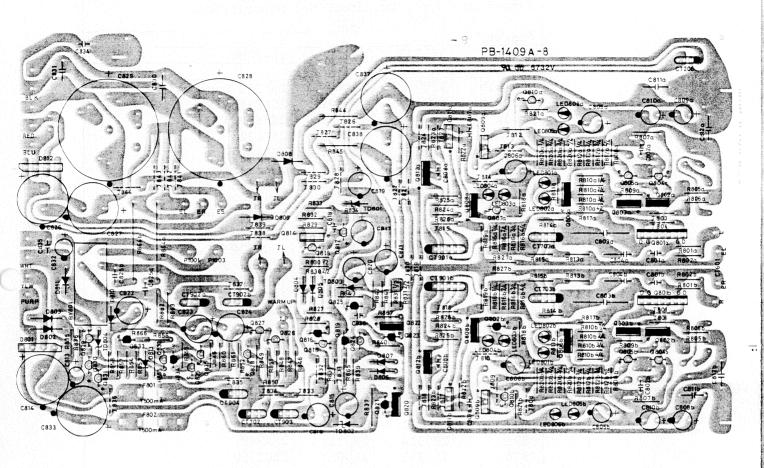
Symbol No.	Stock No. L410	Stock No. L430	Description	
(Fuse Holde	er)			
	AH0028 AH0029	AH0028 AH0029	23165102-C YSH-401T	(S) (E)
(Fuse)				
F001	BF0118 BF0212 BF0082	BF0118 BF0213 BF0083	MF60NR-4A 5120 3.15AT 5x20 4A (T) ULCS-MF61ML-5A ULCS-MF61ML-6A	(EK) (SK) (S) (EZ) (EZ,U)
(Capacitor)				
C002	CU0080	CU0080	0.0047uF 400V	

PB-1409-5



PB-1409A-5 Parts List

Symbol No.	Stock No. Stock No. Desc:	ription	
	L410 L430		
(Switch)		ALCONOMIC TO THE PARTY OF THE P	
SW501-505	SP0282 SP0282 Push	SUF53	



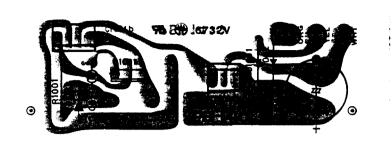
PB-1409A-8 Parts List

Symbol No.	Market Market and Base 1997 and the control of	 A CONTRACTOR CONTRACTOR CONTRACTOR 	Description
	L410	L430	
(Fuse Hold	er)		공항 경기를 하는 것이 그 사람들 것이 하다 그 것이
	AH0028	AH0028	23165102-C
(Fuse)			
F801	BF0206	BF0206	5x20 0.5A-T (S)
	BF0308	BF0308	MF51NR-0.5A (7,J,U)
F802	BF0206	BF0206	$5x20 \ 0.5A-T$ (S)
	BF0308	BF0308	MF51NR-0.5A (E,J,U)
***		BF0208	$5 \times 20 \ 1A-T$ (S)
***		BF0305	MF51NR-1.5A (E)

Symbol No.	Stock No.	Stock No.	. Description
	L410	L430	Description
(Relay)		1 = 130	
RY801	AY1023	AY1023	VB-24MC
(Transisto		·	
0801a,b	TF0035	TF0035	2SK270 Dual FET
Q802a,b	TR0342	TR0342	2SA899-BV
Q803a,b	TR0342	TR0342	2SA899-BV
Q804a,b	TR0351	TR0351	2SC2320
Q805a,b	TR0351	TR0351	2SC2320
Q806a,b	TR0342	TR0342	2SA899-BV
Q807a,b	TR0314	TR0314	2SA999
Q808a,b	TR0342	TR0342	2SA899-BV
Q809a,b	TR0318	TR0318	2SC1904-BV
Q810a,b	TR0351	TR0351	2SC2320
Q811a,b	TR0318	TR0318	2SC1904-BV
Q812a,b	TR0342	TR0342	2SA899-BV
Q814	TR0159	TR0159	2SD415
0815	TR0351	TR0351	2SC2320
Q816	TR0314	TR0314	2SA999
Q817	TR0351	TR0351	2SC2320
0818	TR0351	TR0351	2SC2320
Q819	TR0314	TR0314	2SA999
Q820	TR0158	TR0158	2SB549
Q822	TR0158	TR0158	2SB549
Q823	TRO314	TR0314	2SA999
Q824	TR0351	TR0351	2SC2320
Q825	TR0314	TR0314	2SA999
Q826	TR0351	TR0351	2SC2320
Q827	TR0351	TR0351	2SC2320
Q828	TR0351	TR0351	2SC2320
Q829	TR0351	TR0351	2SC2320
Q830	TR0351	TR0351	2SC2320
Q831	TR0351	TR0351	2SC2320
Q832	TR0351	TR0351	2SC2320
0833	TR0314	TR0314	2SA999
Q834	TR0314	TR0314	2SA999
Q835	TR0351	TR0351	2SC2320
Q836	TR0351	TR0351	2SC2320
(Diode)	1110551	TROJJI	2302320
D801	TD0137	TD0137	S1VB10 Bridge
D802	TD0002	TD0002	1N4002
D803	TD0002	TD0002	1N4002 1N4002
D805	TD0002	TD0227	18841
D806	TD0227	TD0227	15541
D807	TD0227	TD0227	18841
D808	TD00227	TD00227	18841 1N4002
D809	TD0002	TD0002	1N4002 1N4002
D810	TD0227	TD0002	1SS41
D811	TD0227	TD0227	18841
D812	TD0227	TD0139	kan di Artika di Kabupatèn di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn
D813	TD0139	TD0139	S1VB20 Bridge
(Resistor)	IDU 22 /	100227	18841
D804	RB0170	RB0170	330 1/4W Rd
D00+	KDOT / O	TOOTIO	330 I/4W KQ

Table		1	_	·	
TB801	Symbol No.	Stock No.		Descript	ion
TD801	100		L430		
TD802			TTD00/2	117 120	
TD803			1	i contraction of the contraction	
TD804		ļ.			
CLED	1		i	ł	
LED801a,b		110000	100060	MZ-001	
LED802a,b		TD0238	TD0238	TT.R12/	
LED803a,b	1	1	1	1	
LED804a,b		1		1	
TD0238		1	į.	1	
Temperature	1		i	i	
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C802a,b C01441				100pF	St
C802a,b CQ1441 CQ1441 6800pF 50V St (E,S,U) C803a,b CQ5080 CM0174 22000pF 100V My C804a,b CE1977B CM0174 22000pF 100V My C805a,b CE1712 CE1712 220uF 10V E1 C806a,b CE1712 CE1712 220uF 10V E1 C807a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1748 CE1778 22uF 100V E1 C814 CE1748 CE1732 220uF 25V E1 C815 CE1732 CE1732 220uF 25V E1 C816 CE1722 CE00F 16V E1 C8172 CE1732 CE1732 220uF <td></td> <td></td> <td>CQ1403</td> <td>-</td> <td></td>			CQ1403	-	
C803a,b CQ5080 CM0174 1500pF 50V St (E,S,U) C804a,b CE1977B CM0174 22000pF 100V My C805a,b CE1712 CE1712 220uF 10V E1 C806a,b CE1712 CE1712 220uF 10V E1 C807a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1750 CE1750 1uF 50V E1 C814 CE1748 CE1748 220uF 100V E1 C815 CE1732 CE1732 100uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1722 220uF 16V E1 C819 CE1731 CE1731 47uF 25V E1 C820 CE1722 CE1722 220uF 16V E1 C821 CE1731 CE1731 47uF 25V E1 <td>C802a,b</td> <td>CQ1441</td> <td></td> <td>_</td> <td></td>	C802a,b	CQ1441		_	
CR04a,b CE1977B CR0174 C2000pF 100V My 4.7uF BP 50V E1 C00700 3.3uF 100V E1 C806a,b CE1712 CE1712 C220uF 10V E1 C807a,b CM0125 CM0125 47pF 500V Mi C808a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 C2uF 100V E1 C813 CE1778 CE1778 C2uF 100V E1 C813 CE1750 CE1750 LuF 50V E1 C814 CE1748 CE1748 C220uF 35V E1 C815 CE1732 CE1731 47uF 25V E1 C820 CE1722 CE1722 C20uF 16V E1 CE1952 CE1713 CE1731	C803a,b	CQ5080		1500pF	50V St (E,S,U)
C805a,b CE1712 CE1712 C220uF 10V E1			CM0174	22000pF	
C805a,b CE1712 CE1712 CE1712 C20uf 10V E1 C807a,b CM0125 CM0125 47pF 500V Mi C808a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1750 CE1750 luF 50V E1 C814 CE1748 CE1748 2200uF 35V E1 C815 CE1732 CE1732 100uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1732 100uF 25V E1 C819 CE1731 CE1732 10vF 25V E1 C819 CE1731 CE1731 47uF 25V E1 C820 CE1722 CE1722 220uF 16V E1 C821 CE1731 CE1731 47uF 25V E1 C822 CE1713 CE1733 330uF 10V E1	C804a,b	CE1977B		4.7uF BP	50V E1
C806a,b CE1712 CE1712 CE1712 10V E1 C807a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1782 100V E1 100V E1 C813 CE1748 CE1748 220uF 50V E1 C814 CE1732 CE1732 100uF 25V E1 C815 CE1732 CE1732 100uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1731 CE1731 47uF 25V E1 C819 CE1731 CE1731 47uF 25V E1 C820 CE1731 CE1731 47uF 2			C00700	3.3uF	100V E1
C807a,b CM0125 CM0125 47pF 500V Mi C808a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1750 CE1750 1uF 50V E1 C814 CE1748 C220uF 35V E1 C815 CE1732 100uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1722 CE1732 100uF 25V E1 C817 CE1722 C20uF 16V E1 C817 CE1731 CE1731 47uF 25V E1 C820 CE1722 CE1722 220uF 16V E1 C821 CE1731 CE1731 47uF 25V E1 C822 CE1713 CE1731 47uF 25V E1 C822 CE1714 CE1713 47uF 25V E1 C822 CE1714 CE		CE1712	CE1712	220uF	10V E1
C808a,b CM0125 CM0125 47pF 500V Mi C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1750 CE1750 luF 50V E1 C814 CE1748 CE1748 2200uF 35V E1 C815 CE1732 CE1732 220uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1722 CE1732 100uF 25V E1 C819 CE1731 CE1731 47uF 25V E1 C820 CE1722 CE1722 220uF 16V E1 C820 CE1731 CE1731 47uF 25V E1 C821 CE1731 CE1731 47uF 25V E1 C822 CE1713 CE1731 330uF 10V E1 C823 CE1714 CE1714 47ouF 10V E1 C824 CE174 CE174 47ouF 10V E1		l	CE1712	220uF	10V E1
C809a,b CE1778 CE1778 22uF 100V E1 C810a,b CE1778 CE1778 22uF 100V E1 C813 CE1750 CE1750 1uF 50V E1 C814 CE1748 CE1748 220uF 50V E1 C815 CE1732 CE1732 100uF 25V E1 C816 CE1732 CE1732 100uF 25V E1 C817 CE1722 CE1732 100uF 25V E1 C817 CE1731 CE1732 220uF 16V E1 C817 CE1731 CE1731 47uF 25V E1 C820 CE1722 CE1722 220uF 16V E1 C820 CE1731 CE1731 47uF 25V E1 C821 CE1731 CE1731 47uF 25V E1 C822 CE1713 CE1731 47uF 25V E1 C823 CE1714 CE1714 47ouF 10V E1 C824 CE1744 CE1744 47ouF 100V E1		1	1	47pF	500V Mi
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C815	1		'		
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C816 C817 C817 C817 C817 C817 C817 C819 C819 C819 C819 C819 C819 C820 C820 C821 C821 C821 C822 C821 C822 C823 C824 C824 C824 C824 C824 C827 C826 C827 C827 C827 C828 C828 C829 C828 C829 C829 C829 C829	C812	CE1732		1	
C817	2016	a=1.300			i i
C819	1	1	CE1/32		
C819 C820 CE1731 CE1731 CE1732 CE1722 CE1722 CE1722 CE1952 CE1952 CE1952 CE1952 CE1952 CE1952 CE1952 CE1731 CE1748	C817	CE1/22	GT1050	1	
C820	0010	CE1 721		1	
CE1952 220uF 16V E1 (J) C821 CE1731 CE1731 47uF 25V E1 C822 CE1713 CE1713 330uF 10V E1 C823 CE1714 CE1714 470uF 10V E1 C824 CE1714 CE1714 470uF 10V E1 C825a,b CQ3063 CQ3063 0.047uF 100V E1 C826 CE1794 CE1794 470uF 100V E1 C827 CE1794 CE1794 470uF 100V E1 C828 CE1032 CE4098 15000uF 55V E1 (J) CE4097 15000uF 55V E1 (J,U) CE4097 15000uF 55V E1 (J,U) CE4098 CE1031 15000uF 63V E1 (S,E,U) CE4097 15000uF 55V E1 (J,U) CE4098 CE1031 15000uF 63V E1 (S,E,U) CE4097 15000uF 55V E1 (J,U) CE4097 15000uF 63V E1 (S,E,U) CE4097 15000uF 63V E1 (S,E,U) CE4097 15000uF 63V E1 (S,E,U) CE4097 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (J,U) C832 CE1749 CE1749 0.47uF 50V E1 C833 CE1748 CE1748 2200uF 35V E1 C834 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce				1	
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C822	C821	CF1721	1	1	, ,
C823		1			
C824					
C825a,b					
C826					
C827 C828 CE1032 CE4098 CE1031 CE4097 CE4098 CE1032 CE4097 CE4097 CE4098 CE1031 CE4097 CE4098 CE1031 CE4097 CE4098 CE1031 CE4097 CE4098 CE1031 CE4097 CE4097 CE4098 CE1031 CE4097 CE4097 CE4097 CE4097 CE4097 CE4097 CE4097 CE1031 CE4097 CE1031 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4097 CE4098 CE4097 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4097 CE4098 CE4097 CE4098 CE4097 CE4098 CE4097 CE4097 CE4098 CE4098 CE4098 CE4098 CE4097 CE4097 CE4098 CE4098 CE4098 CE4097 CE4098 CE4098 CE4098 CE4098 CE4097 CE4098 CE4098 CE4098 CE4098 CE4097 CE4098 CE4098 CE4098 CE4098 CE4097 CE4098 CE4098 CE4097 CE4097 CE4098 CE4098 CE4098 CE4098 CE4098 CE4097 CE4097 CE4098 CE4097 CE4098		•		1	
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CE4098 CE1031 CE1031 CE4097 CE4097 CE4097 CE4097 CE4097 CE4098 CE1032 CE4098 CE1031 CE4098 CE1031 CE4097 CE1031	1		OLI / J4		
CE1031 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (J,U) 15000uF 56V E1 (S,E,U) 15000uF 55V E1 (J) CE4098 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (J,U) C832 CE1749 CE1749 0.47uF 50V E1 C833 CE1748 CE1748 2200uF 35V E1 C834 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce					
C829 CE1032 CE4097 15000uF 63V E1 (J,U) 15000uF 56V E1 (S,E,U) 15000uF 55V E1 (J) 15000uF 55V E1 (J) 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (J,U) C832 CE1749 CE1749 0.47uF 50V E1 C833 CE1748 CE1748 2200uF 35V E1 C834 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce		01.00	CE1031		` '
C829					' ' '
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CE1031 15000uF 63V E1 (S,E) CE4097 15000uF 63V E1 (J,U) C832 CE1749 CE1749 0.47uF 50V E1 C833 CE1748 CE1748 2200uF 35V E1 C834 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce					` ' ' '
CE4097 15000uF 63V E1 (J,U) C832 CE1749 CE1749 0.47uF 50V E1 C833 CE1748 CE1748 2200uF 35V E1 C834 CK0140 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce C80140 CK0140		CE1031		, ,	
C832					' ' '
C833	C832	CE1749	i		
C834 CK0140 CK0140 0.047uF 50V Ce C835 CK0140 CK0140 0.047uF 50V Ce	C833	CE1748			
C835 CK0140 CK0140 0.047uF 50V Ce	C834	CK0140	1		3
	C835	CK0140			
	C837	CE1794	CE1794	470uF	100V E1
C838 CE1794 CE1794 470uF 100V E1	C838	CE1794	CE1794	470uF	100V E1

Symbol No.	Stook No	Stock No.	I Barrier	
Symbol No.	L410	L430	Descript	ion
(Resistor)				
R801a,b	RB0174	RB0174	470	1/4W Rd
R802a,b	RB0252	RB0252	820K	1/4W Rd
R804		RB0170	330	1/4W Rd
R805a,b	RB0224	RB0224	56K	1/4W Rd
R806a,b	RB0224	RB0224	56K	1/4W Rd
R806		RBO 170	330	1/4W Rd
R807a,b	RB0160	RB0160	120	1/4W Rd
R808a,b	RB0160	RB0160	120	1/4W Rd
R809a,b	RB0186	RB0186	1.5K	1/4W Rd
R810a,b	RB0204	22222	8.2K	1/4W Rd
D011 - 1	BB0170	RB0208	12K	1/4W Rd
R811a,b	RB0170	RB0170	330	1/4W Rd
R812a,b R813a,b	DD01/2	RB0238	240Kx4	1/4W Rd
1	RB0142	RB0142	22	1/4W Rd
R814a,b	RB0254	RB0254	1M	1/4W Rd +
R815a,b	RB0154	RB0154	68	1/4W Rd
R816a,b	RB0203	DROSOG	7.5Kx4	1/4W Rd
D017- h	BB0270	RB0208	12Kx4	1/4W Rd
R817a,b	RB0270	RB0270	4.7M	1/4W Rd
R818a,b	RB0166	RB0166	220	1/4W Rd
R819a,b	DB0226	RB0270	4.7M	1/4W Rd
R820a,b	RB0236	PPCCCC	180K	1/4W Rd
D021 - L	BB0226	RB0238	220Kx4	1/4W Rd
R821a,b	RB0236	PRODOC	180K	1/4w Rd
	DB0166	RB0238	220K	1/4W Rd
Dogg L	RB0166	DG10/0	220	1/4W Rd
R822a,b	RS1849	RS1849	100	1/4W Rf
1	RS1849	RS1849	100	1/4W Rf
R825a,b	RS1849	RS1849	100	1/4W Rf
R826a,b	RS1849	RS1849	100	1/4W Rf
R827	RB0208	RB0208	12K	1/4W Rf
R828	RB0176	RB0176	560	1/4W Rd
R830 1/2	RB0194	RB0194	3.3K	1/4W Rd
R830 2/2	RB0182	2222	1K	1/4W Rd
D021 1/2	BB010/	RB0192	2.7K	1/4W Rd
R831 1/2	RB0194	RB0194	3.3K	1/4W Rd
R§31 2/2	RB0182	BB0100	1K	1/4W Rd
D022	DC10/0	RB0192	2.7K	1/4W Rd
R832	RS1849	RS1849	100	1/4W Rd
R833	pp0200	RB0220	39K	1/4W Rd
R834	RB0208	DD0216	12K	1/4W Rd
R835	BB0200	RB0216	27K	1/4W Rd
R836	RB0208	RB0208	12K	1/4W Rd
R837	RB0208 RS2524	RB0208	12K	1/4W Rd
		RS2524	1K	1/2W Rf
R839	RB0208	RB0208	12K	1/4W Rd
R840 R841	RB0176	RB0176	560	1/4W Rd
R841 R842	RS1825	RS1825	10	1/4W Rf
R843	RB0194	RB0194	3.3K	1/4W Rd
1043	RB0208	pp0216	12K	1/4W Rd
R844	R\$1849	RB0216 RS1849	27K 100	1/4W Rd 1/4W Rf
R845	RS1849	1		- · · · · · · · · · · · · · · · · · · ·
R846	RB0238	RS1849 RB0238	100	1/4W Rf 1/4W Rd
R847	RB0238	I .	220K 4.7M	
R848	RB0270	RB0270		1/4W Rd
R849	RB0206	RB0206	10K	1/4W Rd 1/4W Rd
R850	RB0206	RB0206	10K 4.7K	_,
טרפע	LEGIT 30	RB0270		1/4W Rd
R851	RB0206	RB0270	4.7M	1/4W Rd
R852	RB0136		10K 12	1/4W Rd
R853	RB0196	RB0136 RB0196	3.9K	1/4W Rd
R854	RB0208	RB0208	12K	1/4W Rd 1/4W Rd
R855	RB0206	RB0206	12K 10K	1/4W Rd
R856	RB0206	RB0206	10K	1/4W Rd
R857	RB0224	RB0206	56K	1/4W Rd
R858	RB0150	RB0150	47	1/4W Rd
R859	RB0206	RB0206	10K	1/4W Rd
R860	RB0194	RB0194	3.3K	1/4W Rd 1/4W Rd
R861	RB0194	RB0194	4.7K	1/4W Rd
R862	RD2602	RD2602	6.8K	1/4W Rd 1/2W Rd
R863	RD2602	RD2602	6.8K	1/2W Rd 1/2W Rd
R864a,b	RS5013	RS5013	22	3W Rf
R866	RB0206	RB0206	10K	1/4W Rd
1,000	KBUZUO	KBUZUG	TOV	1/4W IXU



PB-1410 Parts List

Symbol NO.	Stock No. L410	Stock No. L430	Descriptio	n	
(Transisto:	r)	-	-	· · · · · · · · · · · · · · · · · · ·	
Q1001	Non Use	TR0159	2SD415		(J)
Q1002	Non Use	TR0351	2SC2320		(J)
(Diode)					
D1001	Non Use	TD0002	1N4002		(J)
D1002	Non Use	TD0002	1N4002		(J)
(Zener)					
TD1001	Non Use	TD0085	WZ-230		(J)
(Capacitor)				
C1001	Non Use	CE1747	1000uF	35V E	1 (J)
(Resistor)					
R1001	Non Use	RS2524	1K	1/2W R	f (J)

Remarks

Capacitor: El....Electrolytic, Ce....Ceramic, My....Mylar, Pp....Polypropylene, Mi....Mica, St....Styrol.

Resistor: Rd.....Carbon, Rm.....Metal Film, Rf.....Flame Proof.

*In this manual the parts, which differs depending on destination and mains voltage, are classified indicated as follow:

SK, SD, EK: 220V For Europe, South East Asia.

SG,SB,EG: 240V For England, Oceania

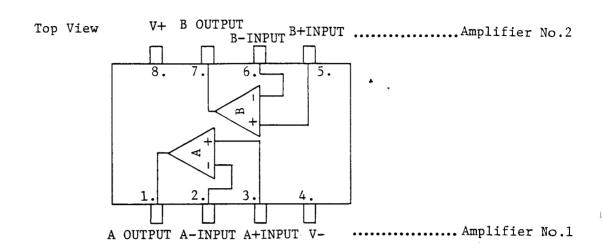
EZ,UP : 120V For Noth America, South East Asia

J: 100V For Japan

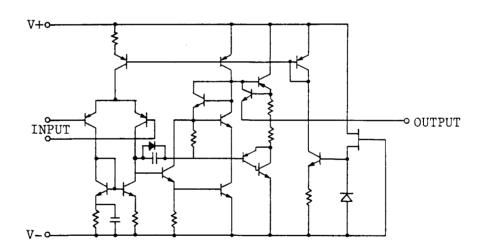
***E Type all with line voltage selector

IC Handling Guide

IC NJM4556D-H (Stock No. TC0187) (Dual High Current Operational Amplifier)



Equivalent Circuit (1/2)



Note

Power Transistor (Complementary Pair)

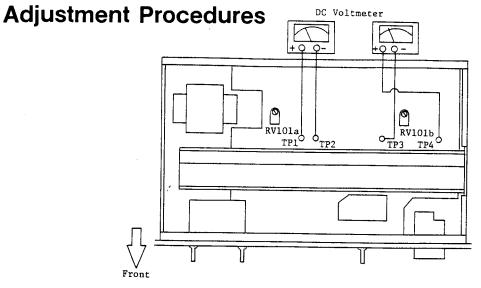
L-410 (Symbol No. Q903a,b & Q904a,b)

2SC3182 2SC2706

2SA1265 or 2SA1146 (First Lot)

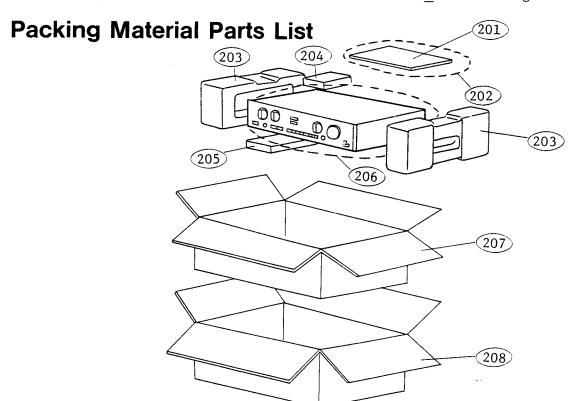
L-430 (Symbol No. Q903a,b Q905a,b Q904a,b Q906a,b)

2SC3182 2SC2706 2SA1265 or 2SA1146 (First Lot)



Bias (Idle) Current Adjustment

- 1. Connect a DC Voltmeter in between TP1 and TP2 on L-ch and or TP4 and TP3 on R-ch, Making TP1 and TP4 positive respectively.
- 2. Adjust the RV101a and RV101b to obtain $15\text{mV} \pm 5\text{mV}$ reading on the meter.



Symbol No.	Stock No. L-230	Stock No. L-400	Description
201	ME0253-2	MA0163	Owner's Manual Sack, Poly Pkg, Tray Pad, Pkg Pad, Pkg Sack, Poly Carton, Pkg Carton, Bulk Pkg
202	56B40230G21	56B40230G21	
203	56C56637F01	56C56637F01	
204	56A58581F01	56A58581F01	
205	56A57423F04	56A57423F04	
206	56B40230G23	56B40230G23	
207	56C53420F32	56C53420F42	
208	56C53420F26	Non Use	

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